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NPA1004 delivers smallest wideband 50W military communications PA solution...

NITRONEX MULTI-STAGE GAN MMIC PROVIDES SMALLEST 50W L-BAND PA

DURHAM, NC (November 9, 2011) - Nitronex, a leader in the design and manufacture of gallium nitride (GaN) based RF solutions for high performance applications in the defense, communications, cable TV, and industrial & scientific markets, has developed the NPA1004, a 1-2GHz, 50W high-gain PA for the military communications market. Fully integrated input matching, inter-stage matching, and RF biasing is provided in a small 0.28in² package, allowing subsystem designers to significantly shrink the footprint of the power amplifier signal chain compared to competing solutions. The NPA1004 achieves 27dB small signal gain, 50W saturated output power and 55% typical drain efficiency across 1-2GHz. The miniature NPA1004 features an off-chip output match that allows designers to tailor performance response to their unique system needs. The high gain of the MMIC PA allows designers to eliminate a driver stage and the high levels of integration reduce board space, while simplifying design and manufacturing processes.

“As a market leader in supplying GaN RF products for the military communications industry, we worked closely with leading prime contractors and PA suppliers to define and develop the NPA1004,” said Gary Blackington, Vice President of Sales and Marketing at Nitronex. “Our close relationships with these customers have enabled us to develop products that are ideally suited to their end applications.”

“The NPA1004 is a prime example of our ability to deliver high-performance, highly integrated GaN MMICs at solution costs as good as or better than discrete FET-based amplifiers,” said Ray Crampton, Vice President of Engineering. “Our proprietary GaN-on-Si process, which has been used to ship over 50,000 production MMICs, allows us to offer more functionality in a smaller footprint than competing technologies.”

The NPA1004 is currently available in sample and pre-production quantities. Interested parties should contact their Nitronex sales representative for further information.

About Nitronex

Nitronex Corporation is an innovative leader in the design and manufacture of gallium nitride (GaN) based RF solutions. Nitronex is the pioneer in developing high performance gallium nitride on silicon (GaN-on-Si) semiconductor solutions using its proprietary SIGANTIC® manufacturing process. Nitronex products enable high performance applications in the defense, communications, cable TV, and industrial & scientific markets. An ISO-9001 certified manufacturer, Nitronex was founded in 1999 and is headquartered in Durham, NC. Nitronex has been awarded 24 patents with 15 others pending. For more information, please visit the Nitronex web site at www.nitronex.com.

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